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IAD - 78/65
27 July 1965

MEMORANDUM FOR: Assistant for Plans and Development, NPIC

ATTENTION: [REDACTED]

FROM: Chief, Imagery Analysis Division, CIA

SUBJECT: Measuring Eyepiece and Goniometer for the [REDACTED]
[REDACTED] High Power Stereoviewer (Dynazoom)

1. A need exists for a high quality measuring eyepiece and a goniometer, designed specifically for the [REDACTED] Dynazoom High Power Stereoviewer with [REDACTED] objectives. As knowledge of size is a critical element in identification, the photo analyst must have the capability for rapid mensuration during all photo analysis. Basic measurements, accomplished with the chip comparator, or by the Technical Analysis Branch, TID, are used by the photo analyst to compute scale factors for selected degrees of magnification. This permits the photo analyst to make measurements rapidly when concurrent interpretation is required. Thus the chip comparator is released for computation of basic measurements in new areas, and the capabilities of the Technical Analysis Branch, TID, can be utilized for the production of more sophisticated mensuration beyond the capabilities of most photo analysts and the equipment available to them, or for producing measurements with minimal requirements for concurrent interpretation. Where organizational policy requires that all reported (published) measurements be produced by the Technical Analysis Branch, TID, the photo analysis department responsible for the overall product must have the capability which permits the photo analyst to check critical measurements to preclude publication of gross errors.

2. On 26 July 1965, an Ad Hoc committee consisting of [REDACTED] (NPIC/P&DS), [REDACTED] (CIA/IAD), [REDACTED] (NPIC/PAG) and [REDACTED] (NPIC/PAG) met and discussed this need. The committee agreed that the following is desirable:

A. Action by the Plans and Development Staff to procure a Filar (measuring) eyepiece, a goniometer eyepiece, and a clear matching eyepiece for the [REDACTED] High Power Stereoviewer. The optimum magnification of the eyepieces would probably be approximately 10 power. A current requirement exists to secure a

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small power objective lens, which would permit a wider field of view. The goniometer must have a movable compass-rose and a rotating crosshair with the point of intersection at the axis of rotation. All eyepieces must be of high quality and must match the available objectives.

B. As an interim measure, the 12.5 power Filar eyepiece be utilized and that P&DS investigate the possibility of securing a matching eyepiece which would permit stereo viewing during mensuration without the need to employ two Filar eyepieces simultaneously.

3. This correspondence sets forth a joint requirement of NPIC/PAG and CIA/IAD.

CONCURRENCE:

Colonel, USA
Assistant for Photographic Analysis, NPIC

29 July 1965
Date

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